



## Gut Microbiome in Liver Diseases

Guest Editor:

**Prof. Dr. Hiroshi Fukui**

Department of Gastroenterology,  
Nara Medical University,  
Kashiwara 634-8521, Japan

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### Message from the Guest Editor

Accumulating evidence supports that gut dysbiosis may be associated with various liver diseases including alcoholic liver diseases, metabolic-associated fatty liver diseases, viral hepatitis, and autoimmune liver diseases. Pathophysiological liver cirrhosis and hepatocellular carcinoma with complications are very important. Variable gut dysbiosis is found in patients with liver diseases. Leaky gut and gut–liver axis are fundamental bases of these diseases. Etiological and pathological backgrounds have been studied for many years, and endotoxemia and related metabolic and immunological backgrounds have become clear recently. For treatment, probiotics, synbiotics and antibiotics have been tried for many years. However, these strategies should be evaluated further by gut microbiota to improve dysbiosis. In this Special Issue, variable complications in liver diseases will be discussed under the physiological backgrounds and promising future treatments.





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### Dr. Nico Jehmlich

Department of Molecular  
Systems Biology, UFZ-Helmholtz  
Centre for Environmental  
Research, 04318 Leipzig,  
Germany

## Message from the Editor-in-Chief

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*Microorganisms* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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